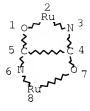
```
=> d que
L4                STR
```



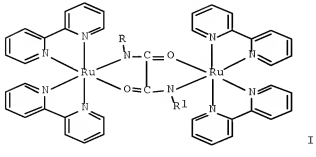
```
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   8

STEREO ATTRIBUTES: NONE
L6            50 SEA FILE=REGISTRY SSS FUL L4
L8             3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6


=> d 18 1-3 ibib ed abs hitstr hitind

L8   ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2004:920793  HCAPLUS  Full-text
DOCUMENT NUMBER:          142:105926
TITLE:                    A New Class of Near-Infrared Electrochromic
                          Oxamide-Based Dinuclear Ruthenium Complexes
AUTHOR(S):                Rastegar, Majid F.; Todd, Erin K.; Tang, Hongding;
                          Wang, Zhi Yuan
CORPORATE SOURCE:         Department of Chemistry, Carleton University,
                          Ottawa, ON, K1S 5B6, Can.
SOURCE:                   Organic Letters (2004), 6(24), 4519-4522
                          CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER:                American Chemical Society
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 142:105926
ED   Entered STN:  03 Nov 2004
GI
```



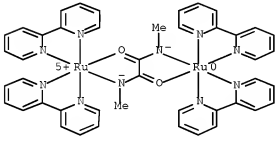
I

AB The authors report the synthesis of a new class of sym. and unsym. oxamide-based dinuclear Ru complexes I (R = R1 = Me, NPh2, H, p-C6H4NMe2, p-C6H4OMe, Ph, p-C6H4Cl, p-C6H4CO2Me, R = Ph, R1 = Me or R = 1-naphthyl, R1 = CHMePh). These complexes were characterized by NMR, ESI-MS, and electrochem. methods. Spectroelectrochem. anal. of the complexes showed broad absorptions in the NIR region for the mixed-valence state of the complexes. The introduction of a chiral group into the bridging ligand produced an optically active complex that was studied using CD.

IT 816419-30-4 816419-32-6 816419-33-7
816419-35-9 816419-38-2 816419-43-9
816419-46-2 816419-49-5 816419-52-0
816419-53-1 816419-54-2 816419-55-3
816419-56-4 816419-57-5 816419-58-6
816419-60-0 816419-63-3 816419-65-5
816419-66-6 816419-67-7
(elec. potential of couple containing)

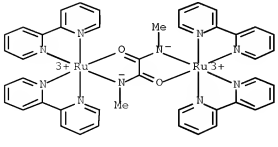
RN 816419-30-4 HCAPLUS

CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-dimethylethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)

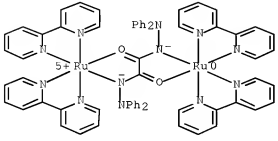


RN 816419-32-6 HCAPLUS

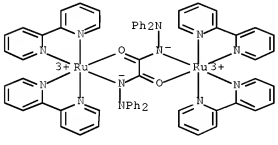
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-dimethylethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



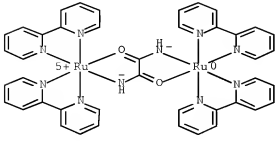
RN 816419-33-7 HCAPLUS
CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[[(ethanedioic acid-κO1:κO2) bis(2,2-diphenylhydrazidato-κN1)](2-)]]di- (9CI) (CA INDEX NAME)



RN 816419-35-9 HCAPLUS
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[[(ethanedioic acid-κO1:κO2) bis(2,2-diphenylhydrazidato-κN1)](2-)]]di- (9CI) (CA INDEX NAME)

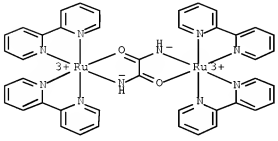


RN 816419-38-2 HCAPLUS
CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



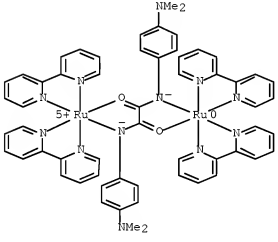
RN 816419-43-9 HCAPLUS

CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



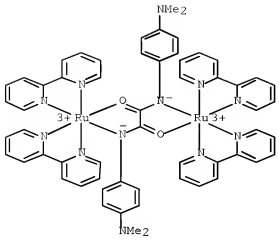
RN 816419-46-2 HCAPLUS

CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis[4-(dimethylamino)phenyl]ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)

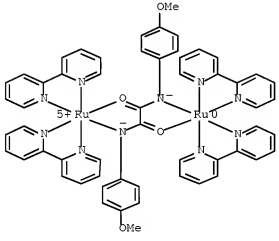


RN 816419-49-5 HCAPLUS

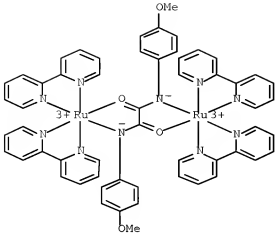
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis[4-(dimethylamino)phenyl]ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



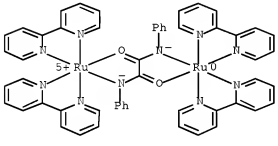
RN 816419-52-0 HCAPLUS
CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(4-methoxyphenyl)ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



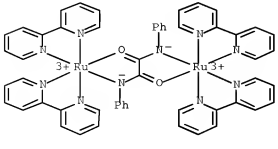
RN 816419-53-1 HCAPLUS
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(4-methoxyphenyl)ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



RN 816419-54-2 HCAPLUS
CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-diphenylethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)

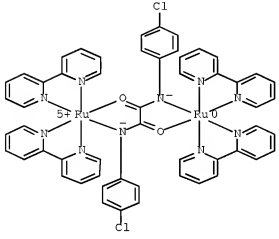


RN 816419-55-3 HCAPLUS
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-diphenylethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



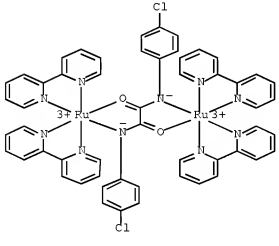
RN 816419-56-4 HCAPLUS

CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(4-chlorophenyl)ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



RN 816419-57-5 HCAPLUS

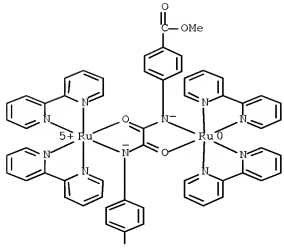
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(4-chlorophenyl)ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



RN 816419-58-6 HCAPLUS

CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[dimethyl 4,4'-[[1,2-di(oxo-κO)-1,2-ethanediyl]di(imino-κN)]bis[benzoato]](2-)]di- (9CI) (CA INDEX NAME)

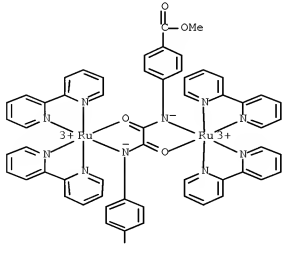
PAGE 1-A



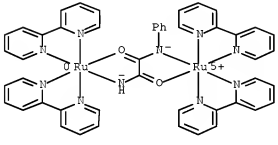
PAGE 2-A

RN 816419-60-0 HCAPLUS
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[dimethyl 4,4'-[[1,2-di(oxo-κO)-1,2-ethanediyl]di(imino-κN)]bis[benzoato]](2-)]di- (9CI) (CA INDEX NAME)

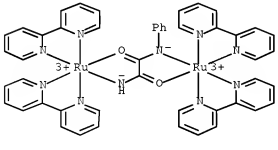
PAGE 1-A



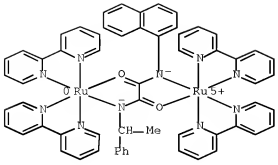
RN 816419-63-3 HCAPLUS
CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N-phenylethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



RN 816419-65-5 HCAPLUS
CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N-phenylethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)

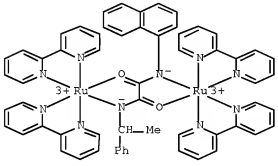


RN 816419-66-6 HCAPLUS
CN Ruthenium(3+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N-1-naphthalenyl-N'-[(1S)-1-phenylethyl]ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



RN 816419-67-7 HCAPLUS

CN Ruthenium(4+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N-1-naphthalenyl-N'-[(1S)-1-phenylethyl]ethanediamidato(2-)-κN,κO':κN',κO]]di- (9CI) (CA INDEX NAME)



IT 485831-05-8P

(preparation and cyclic voltammetry and crystal structure of)

RN 485831-05-8 HCAPLUS

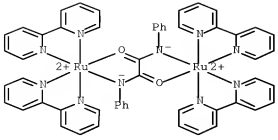
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-diphenylethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 485831-04-7

CMF C54 H42 N10 O2 Ru2

CCI CCS



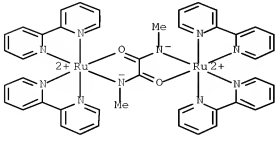
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

IT 816419-10-0P 816419-12-2P 816419-14-4P
816419-16-6P 816419-18-8P 816419-20-2P
816419-22-4P 816419-24-6P 816419-26-8P
(preparation and cyclic voltammetry of)
RN 816419-10-0 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-dimethylethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-09-7
CMF C44 H38 N10 O2 Ru2
CCI CCS



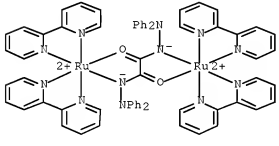
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 816419-12-2 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[[(ethanedioic acid-κO1:κO2) bis(2,2-diphenylhydrazidato-κN1)](2-)]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-11-1
CMF C66 H52 N12 O2 Ru2
CCI CCS



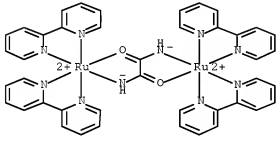
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 816419-14-4 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

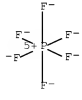
CM 1

CRN 816419-13-3
CMF C42 H34 N10 O2 Ru2
CCI CCS



CM 2

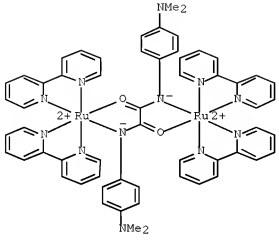
CRN 16919-18-9
CMF F6 P
CCI CCS



RN 816419-16-6 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis[4-(dimethylamino)phenyl]ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-15-5
CMF C58 H52 N12 O2 Ru2
CCI CCS



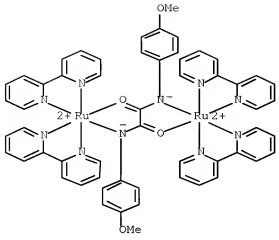
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 816419-18-8 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(4-methoxyphenyl)ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-17-7
CMF C56 H46 N10 O4 Ru2
CCI CCS



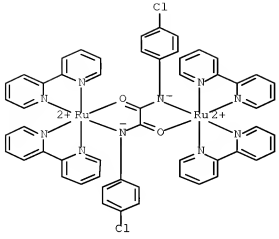
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 816419-20-2 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(4-chlorophenyl)ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-19-9
CMF C54 H40 C12 N10 O2 Ru2
CCI CCS



CM 2

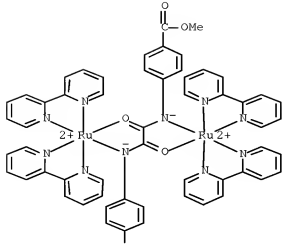
CRN 16919-18-9
CMF F6 P
CCI CCS

RN 816419-22-4 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[dimethyl 4,4'-[[1,2-di(oxo-κO)-1,2-ethanediyl]di(imino-κN)]bis[benzoato]](2-)]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-21-3
CMF C58 H46 N10 O6 Ru2
CCI CCS

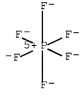
PAGE 1-A



PAGE 2-A

CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

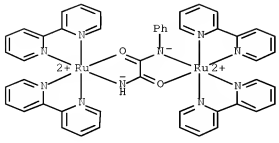


RN 816419-24-6 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N-phenylethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-23-5

CMF C48 H38 N10 O2 Ru2
CCI CCS



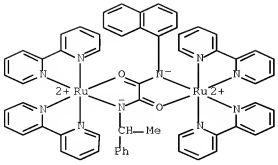
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 816419-26-8 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N-1-naphthalenyl-N'-[(1S)-1-phenylethyl]ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-25-7
CMF C60 H48 N10 O2 Ru2
CCI CCS



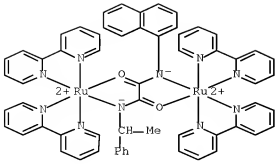
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

IT 816419-70-2P
(preparation of)
RN 816419-70-2 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N-1-naphthalenyl-N'-[(1R)-1-phenylethyl]ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 816419-69-9
CMF C60 H48 N10 O2 Ru2
CCI CCS



CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 25, 72, 75
IT 816419-30-4 816419-32-6 816419-33-7
816419-35-9 816419-38-2 816419-43-9
816419-46-2 816419-49-5 816419-52-0
816419-53-1 816419-54-2 816419-55-3
816419-56-4 816419-57-5 816419-58-6
816419-60-0 816419-63-3 816419-65-5
816419-66-6 816419-67-7
(elec. potential of couple containing)
IT 465831-05-8P
(preparation and cyclic voltammetry and crystal structure of)
IT 816419-10-0P 816419-12-2P 816419-14-4P
816419-16-6P 816419-18-8P 816419-20-2P
816419-22-4P 816419-24-6P 816419-26-8P
(preparation and cyclic voltammetry of)
IT 816419-70-2P
(preparation of)
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

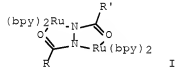
L8 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:281866 HCAPLUS Full-text
DOCUMENT NUMBER: 138:304708
TITLE: Ruthenium complexes for organic electrochromic

	materials for optical attenuation in the near infrared region
INVENTOR(S):	Wang, Zhi Yuan
PATENT ASSIGNEE(S):	Twlinks Inc., Can.
SOURCE:	U.S. Pat. Appl. Publ., 16 pp. CODEN: USXXCO
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	2
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 20030066989	A1	20030410	US 2002-151891		20020522
US 6815528	B2	20041109			
CA 2348288	A1	20021124	CA 2001-2348288		20010524
CA 2348288	C	20070109			
US 20080188678	A1	20080807	US 2004-764556		20040127
PRIORITY APPLN. INFO.:			CA 2001-2348288	A	20010524
			US 2001-292959P	P	20010524
			US 2002-151891	A3	20020522

ED Entered STN: 11 Apr 2003

GI



I

AB The title compds. comprise I, where R and R' are different organic substituents. The compds. are useful as organic electrochromic Near IR (NIR)-active materials capable of absorbing and attenuating the light in the NIR region around 1550 nm and forming thin films on electrodes for variable optical attenuator (VOA) applications. They have utility in planar VOA devices. Complexes which are dimers or trimers (sym. or unsym.) are disclosed, as are polymeric complexes. Crosslinked polymeric complex films are also disclosed.

IT 485831-05-8P 485831-07-0P 485831-09-2P
485831-11-6P 485831-13-8P
(monomer; ruthenium complexes for organic electrochromic materials for optical attenuation in the near IR region)

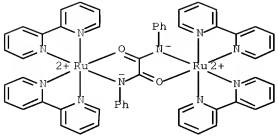
RN 485831-05-8 HCAPLUS

CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-diphenylethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 485831-04-7
CMF C54 H42 N10 O2 Ru2

CCI CCS



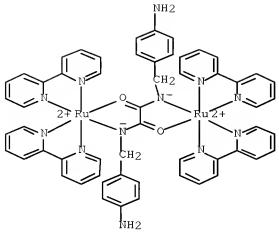
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 485831-07-0 HCAPLUS
CN Ruthenium(2+), [μ-[N,N'-bis[(4-aminophenyl)methyl]ethanediamidato(2-)-κN,κO':κN',κO]]tetrakis(2,2'-bipyridine-κN1,κN1')di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 485831-06-9
CMF C56 H48 N12 O2 Ru2
CCI CCS



CM 2

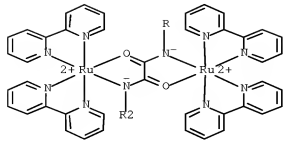
CRN 16919-18-9
CMF F6 P
CCI CCS

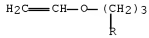
RN 485831-09-2 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis[3-(ethenyloxy)propyl]ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

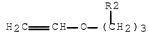
CRN 485831-08-1
CMF C52 H50 N10 O4 Ru2
CCI CCS

PAGE 1-A





PAGE 2-A



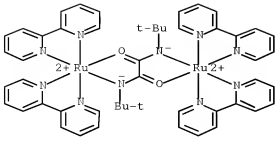
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 485831-11-6 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(1,1-dimethylethyl)ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 485831-10-5
CMF C50 H50 N10 O2 Ru2
CCI CCS



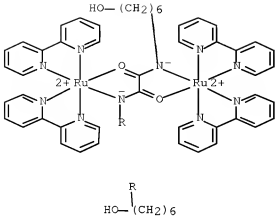
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 485831-13-8 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(6-hydroxyhexyl)ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

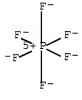
CM 1

CRN 485831-12-7
CMF C54 H58 N10 O4 Ru2
CCI CCS



CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS



IC ICM C08G018-00
ICS G03C001-00; G02B005-02; G02C007-10; F21V009-00; G03B011-00
INCL 252582000; 528044000
CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 73, 78
IT 485830-81-7P 485830-83-9P 485830-85-1P 485830-87-3P
485830-89-5P 485830-91-9P 485830-93-1P 485830-95-3P
485830-97-5P 485830-99-7P 485831-01-4P 485831-03-6P
485831-05-8P 485831-07-0P 485831-09-2P
485831-11-6P 485831-13-8P
(monomer; ruthenium complexes for organic electrochromic materials for optical attenuation in the near IR region)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:42708 HCAPLUS Full-text
DOCUMENT NUMBER: 138:114780
TITLE: Electrochromic ruthenium complex polymers for optical attenuation in the near infrared region
INVENTOR(S): Wang, Zhi Yuan
PATENT ASSIGNEE(S): Twlinks Inc., Can.

SOURCE: U.S. Pat. Appl. Publ., 15 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 20030010963	A1	20030116	US 2002-151889		20020522
US 6894111	B2	20050517			
CA 2348288	A1	20021124	CA 2001-2348288		20010524
CA 2348288	C	20070109			
PRIORITY APPLN. INFO.:			CA 2001-2348288	A	20010524
			US 2001-292959P	P	20010524

ED Entered STN: 17 Jan 2003

AB The invention provides generally a new type of organic electrochromic Near IR (NIR)-active materials capable of absorbing and attenuating the light in the NIR region around 1550 nm and forming thin films on electrodes for variable optical attenuator (VOA) applications. They have utility in planar VOA devices. The materials are ruthenium complexes. Unsym. complexes having two different substituents are disclosed, where one substituent is more electron-donating than the other. Complexes which are dimers or trimers (sym. or unsym.) are disclosed, as well as are polymeric complexes. Crosslinked polymeric complex films are also disclosed.

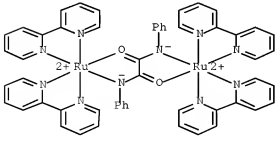
IT 485831-05-8P 485831-07-0P 485831-09-2P
485831-11-6P 485831-13-8P
(preparation of electrochromic ruthenium complex polymers)

RN 485831-05-8 HCAPLUS

CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-diphenylethanediamidato(2-)-κN,κO':κN',κO']]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 485831-04-7
CMF C54 H42 N10 O2 Ru2
CCI CCS



CM 2

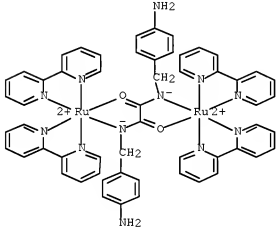
CRN 16919-18-9

CMF F6 P
CCI CCS

RN 485831-07-0 HCAPLUS
CN Ruthenium(2+), [μ-[N,N'-bis[(4-aminophenyl)methyl]ethanediamidato(2-)-κN,κO':κN',κO]]tetrakis(2,2'-bipyridine-κN1,κN1')di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 485831-06-9
CMF C56 H48 N12 O2 Ru2
CCI CCS



CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

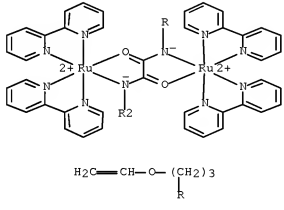
RN 485831-09-2 HCAPLUS

CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis[3-(ethenyloxy)propyl]ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

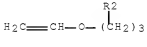
CM 1

CRN 485831-08-1
CMF C52 H50 N10 O4 Ru2
CCI CCS

PAGE 1-A



PAGE 2-A



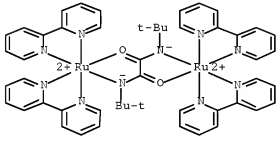
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 485831-11-6 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(1,1-dimethylethyl)ethanediamidato(2-)-κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 485831-10-5
CMF C50 H50 N10 O2 Ru2
CCI CCS



CM 2

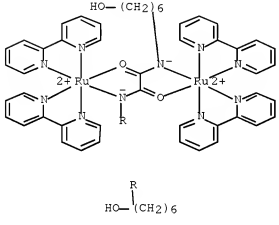
CRN 16919-18-9
CMF F6 P
CCI CCS

RN 485831-13-8 HCAPLUS
CN Ruthenium(2+), tetrakis(2,2'-bipyridine-κN1,κN1')[μ-[N,N'-bis(6-hydroxyhexyl)ethanediamidato(2-)-

κN,κO':κN',κO]]di-, bis[hexafluorophosphate(1-
)] (9CI) (CA INDEX NAME)

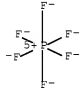
CM 1

CRN 485831-12-7
CMF C54 H58 N10 O4 Ru2
CCI CCS



CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS



IC ICM G03C001-00
INCL 252582000
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 72
IT 26100-79-8DP, complexes with ruthenium compds. 27251-03-2DP, complexes with ruthenium compds. 27306-66-7DP, Poly[hydrazo(1,6-dioxo-1,6-hexanediyl)], complexes with ruthenium compds. 28406-85-1DP, complexes with ruthenium compds. 30397-70-7DP, complexes with ruthenium compds. 30661-24-6DP, complexes with ruthenium compds. 32035-54-4DP, complexes with ruthenium compds. 439217-50-2P 485802-60-6DP, complexes with ruthenium compds.

485802-61-7DP, complexes with ruthenium compds. 485830-81-7P
485830-83-9P 485830-85-1P 485830-87-3P 485830-89-5P
485830-91-9P 485830-93-1P 485830-95-3P 485830-97-5P
485830-99-7P 485831-01-4P 485831-03-6P 485831-05-8P
485831-07-0P 485831-09-2P 485831-11-6P
485831-13-8P 485831-15-0P 485831-17-2P 485831-19-4P
485831-23-0P
(preparation of electrochromic ruthenium complex polymers)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=>  d his nofile

     (FILE 'HOME' ENTERED AT 11:20:38 ON 20 AUG 2008)

     FILE 'HCAPLUS' ENTERED AT 11:20:53 ON 20 AUG 2008
L1             1 SEA ABB=ON  PLU=ON  US20080188678/PN
                 SEL RN

     FILE 'REGISTRY' ENTERED AT 11:21:26 ON 20 AUG 2008
L2            66 SEA ABB=ON  PLU=ON  (27251-03-2/BI OR 485802-60-6/BI OR
                 100-07-2/BI OR 110-78-1/BI OR 119933-16-3/BI OR 122-04-3/BI
                  OR 14331-27-2/BI OR 15746-57-3/BI OR 1694-83-3/BI OR
                 195375-12-3/BI OR 195375-15-6/BI OR 195375-19-0/BI OR
                 21719-53-9/BI OR 25854-16-4/BI OR 26100-79-8/BI OR
                 27306-66-7/BI OR 28406-85-1/BI OR 30397-70-7/BI OR
                 30661-24-6/BI OR 314283-32-4/BI OR 32035-54-4/BI OR
                 3290-99-1/BI OR 407-25-0/BI OR 439216-47-4/BI OR 439217-50-
                 2/BI OR 4422-95-1/BI OR 485802-50-4/BI OR 485802-57-1/BI
                 OR 485802-58-2/BI OR 485802-59-3/BI OR 485802-61-7/BI OR
                 485830-81-7/BI OR 485830-83-9/BI OR 485830-85-1/BI OR
                 485830-87-3/BI OR 485830-89-5/BI OR 485830-91-9/BI OR
                 485830-93-1/BI OR 485830-95-3/BI OR 485830-97-5/BI OR
                 485830-99-7/BI OR 485831-01-4/BI OR 485831-03-6/BI OR
                 485831-05-8/BI OR 485831-07-0/BI OR 485831-09-2/BI OR
                 485831-11-6/BI OR 485831-13-8/BI OR 485831-15-0/BI OR
                 485831-17-2/BI OR 485831-19-4/BI OR 485831-23-0/BI OR
                 485831-38-7/BI OR 509094-96-6/BI OR 5351-23-5/BI OR
                 54019-08-8/BI OR 613-94-5/BI OR 67613-57-4/BI OR 6781-59-5/
                 BI OR 6781-65-3/BI OR 7440-18-8/BI OR 75-36-5/BI OR
                 75396-47-3/BI OR 77-99-6/BI OR 79-44-7/BI OR 92555-33-4/BI
                 OR 27251-03-2/BI OR 485802-60-6/BI OR 100-07-2/BI OR
                 110-78-1/BI OR 119933-16-3/BI OR 122-04-3/BI OR 14331-27-2/
                 BI OR 15746-57-3/BI OR 1694-83-3/BI OR 195375-12-3/BI OR
                 195375-15-6/BI OR 195375-19-0/BI OR 21719-53-9/BI OR
                 25854-16-4/BI OR 26100-79-8/BI OR 27306-66-7/BI OR
                 28406-85-1/BI OR 30397-70-7/BI OR 30661-24-6/BI OR
                 314283-32-4/BI OR 32035-54-4/BI OR 3290-99-1/BI OR
                 407-25-0/BI OR 439216-47-4/BI OR 439217-50-2/BI OR
                 4422-95-1/BI OR 485802-50-4/BI OR 485802-57-1/BI OR
                 485802-58-2/BI OR 485802-59-3/BI OR 485802-61-7/BI OR
                 485830-81-7/BI OR 485830-83-9/BI OR 485830-85-1/BI OR
                 485830-87-3/BI OR 485830-89-5/BI OR 485830-91-9/BI OR
                 485830-93-1/BI O
L3            25 SEA ABB=ON  PLU=ON  L2 AND RU/ELS
L4               STR
L5             3 SEA SSS SAM L4
L6            50 SEA SSS FUL L4
L7             5 SEA ABB=ON  PLU=ON  L6 AND L2
                 SAV L6 TRU556/A

     FILE 'HCAPLUS' ENTERED AT 11:25:27 ON 20 AUG 2008
L8             3 SEA ABB=ON  PLU=ON
```